## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **LISTING OF CLAIMS:**

Claims 1-19 (Canceled).

- 20. (Previously Presented) A process for preparing high density green compacts comprising the following steps:
- (a) subjecting a composition of an iron or iron-based powder, wherein less than about 5% of the powder particles have a size below 45 µm, and a lubricant added to the powder in an amount between about 0.05% and about 0.6% by weight, to uniaxial compaction in a die at a compaction pressure of at least about 800 MPa; and
  - (b) ejecting the green body from the die.
- 21. (Previously Presented) The process of claim 20, further comprising mixing said powder with graphite and other additives.
- 22. (Previously Presented) The process of claim 20, wherein the compaction is performed in a single step.

- 23. (Previously Presented) The process of claim 20, wherein at least about 50% of the powder consists of particles having a particle size above about 106 μm.
- 24. (Previously Presented) The process of claim 20, wherein at least about 60% of the powder consists of particles having a particle size above about 106 μm.
- 25. (Previously Presented) The process of claim 20, wherein at least about 70% of the powder consists of particles having a particle size above about 106 μm.
- 26. (Previously Presented) The process of claim 20, wherein at least 50% of the powder consists of particles having a particle size above about 212 μm.
- 27. (Previously Presented) The process of claim 26, wherein at least 60% of the powder consists of particles having a particle size above about 212 μm.
- 28. (Previously Presented) The process of claim 26, wherein at least 70% of the powder consists of particles having a particle size above about 212  $\mu$ m.
- 29. (Previously Presented) The process of claim 26, wherein the maximum particle size is about 2 mm.

30. (Currently Amended) The process of claim 22 21, wherein the graphite is present in an amount of about 0.1 to 1.0%.

## 31-33. (Cancelled)

- 34. (Previously Presented) The process of claim 21, wherein the additives are selected from the group consisting of alloying elements, machinability enhancing agents, hard phase materials and flow agents.
- 35. (Previously Presented) The process of claim 20, wherein the compaction is performed at a pressure of at least 900 MPa.
- 36. (Previously Presented) The process of claim 35, wherein the compaction is performed at a pressure of at least 1000 MPa.
- 37. (Previously Presented) The process of claim 35, wherein the compaction is performed at a pressure of at least 1100 MPa.
- 38. (Previously Presented) The process of claim 20, wherein the compaction is performed at ambient temperature.
- 39. (Previously Presented) The process of claim 20, wherein the compaction is performed at elevated temperature.

40. (Previously Presented) The process of claim 20, further comprising sintering in a single step at a temperature above 1100°C.

## 41-47. (Canceled)

- 48. (Previously Presented) The process of claim 34, wherein the alloying element is selected from the group consisting of Mn, Cu, Ni, Cr, Mo, V, Co, W, Nb, Ti, Al, P, S and B.
- 49. (Previously Presented) The process of claim 20, wherein the compaction is performed without using external lubrication.
- 50. (Previously Presented) The process of claim 49, wherein the powder is a water-atomized, completely alloyed steel powder.
- 51. (Previously Presented) The process of claim 20, wherein the powder is a water-atomized, completely alloyed steel powder.